## Amendments to the Claims

The listing of claims below will replace all prior versions and listings of claims in the present application.

## Claim Listing

1	1. (Currently Amended) A method comprising:
2	collecting network traffic data wherein said collecting comprises
3	receiving a group of information,
4	determining whether to process the group of information for network traffic data
5	collection, wherein
6	said determining is performed according to a sampling algorithm,
7	processing the group of information for network traffic data collection if the
8	determination is to process the group of information, wherein the
9	processing further comprises:
10	creating a traffic information packet, wherein the traffic information
11	packet includes a sampling mode field indicating the sampling
12	algorithm used; and
13	transmitting the traffic information packet to a network traffic data
14	collection application; and
15	forwarding the group of information to a destination.
1	2. (Original) The method of Claim 1 wherein the group of information is an IP
2	packet.
1	2 (Canadad)
1	3. (Canceled)
1	4. (Original) The method of Claim 1 wherein forwarding the group of
2	information to the destination comprises:
3	identifying the destination using a forwarding table;
4	if the destination is in the forwarding table, automatically forwarding the group of
5	information to the destination; and

0	otherwise sending the group of information to one of more processing engines to
7	determine routing to the destination and forwarding the group of
8	information according to the determined routing.
1	5. (Original) The method of Claim 1 wherein forwarding the group of
2	information to the destination is performed after processing the group of information.
1	6. (Previously Presented) The method of Claim 1 wherein the processing of the
2	group of information for network traffic data collection comprises:
3	determining if the group of information is part of one or more recorded traffic flows;
5	creating a new entry in a table if the group of information is not part of the one or
6	more recorded traffic flows;
7	incrementing a field in an existing entry in the table if the group of information is
8	part of the one or more recorded traffic flows; and
9	time stamping the group of information.
1	7. (Cancelled)
1	8. (Currently Amended) The method of Claim 7 1 wherein the traffic
2	information packet comprises a header and one or more flow records.
1	9. (Currently Amended) An apparatus comprising:
2	means for receiving a group of information; and
3	means for collecting network traffic data said means for collecting comprising
4	means for determining whether to process the group of information for network
5	traffic data collection, wherein
6	the means for determining comprises a means for sampling,
7	means for processing the group of information for network traffic data collection
8	if the determination is to process the group of information, wherein the
9	means for processing further comprises:

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10	a means for creating a traffic information packet, wherein the traffic
11	information packet includes a sampling mode field indicating a
12	sampling algorithm used; and
13	a means for transmitting the traffic information packet to a network traffic
14	data collection application; and
15	means for forwarding the group of information to a destination.
1	10. (Original) The apparatus of Claim 9 wherein the group of information is an
2	IP packet.
1	11. (Canceled)
1	12. (Original) The apparatus of Claim 9 wherein the means for forwarding the
2	group of information to the destination comprises:
3	means for identifying the destination using a forwarding table;
4	means for automatically forwarding the group of information to the destination if
5	the destination is in the forwarding table; and
6	means for sending the group of information to one or more processing engines to
7	determine routing to the destination and then forward the group of
8	information according to the determined routing otherwise.
1	13. (Previously Presented) The apparatus of Claim 9 wherein the means for
2	processing of the group of information for network traffic data collection comprises:
3	means for determining if the group of information is part of one or more recorded
4	traffic flows;
5	means for creating a new entry in a table if the group of information is not part of
6	the one or more recorded traffic flows;
7	means for incrementing a field in an existing entry in the table if the group of
8	information is part of the one or more recorded traffic flows; and
9	means for time stamping the group of information.
1	14. (Cancelled)

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1	15. (Currently Amended) The apparatus of Claim 14 9 wherein the traffic
2	information packet comprises a header and one or more flow records.
1	16. (Currently Amended) A network node comprising:
2	a processing engine, wherein
3	the processing engine is configured to collect network traffic data; and
4	a memory coupled to the processing engine and the memory is configured to store
5	instructions configured to cause the processing engine to
6	receive a group of information;
7	determine whether to process the group of information for network traffic data
8	collection according to a sample algorithm;
9	process the group of information for network traffic data collection if the
10	determination is to process the group of information;
11	create a traffic information packet, wherein the traffic information packet includes
12	a sampling mode field indicating the sample algorithm used;
13	transmit the traffic information packet to a network traffic data collection
14	application; and
15	forward the group of information to the destination.
1	17. (Original) The network node of Claim 16 wherein the group of information
2	is an IP packet.
1	18. (Canceled)
1	19. (Original) The network node of Claim 16 wherein the set of instructions to
2	forward the group of information to the destination comprises a set of instructions to:
3	identify the destination using a forwarding table;
4	if the destination is in the forwarding table, automatically forward the group of
5	information to the destination; and

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6	otherwise send the group of information to one or more processing engines to
7	determine routing to the destination and forward the group of information
8	according to the determined routing.
1	20. (Previously Presented) The network node of Claim 16 wherein the set of
2	instructions to process the group of information for network traffic data collection
3	comprises a set of instructions to:
4	determine if the group of information is part of one or more recorded traffic
5	flows;
6	create a new entry in a table if the group of information is not part of the one or
7	more recorded traffic flows;
8	increment a field in an existing entry in the table if the group of information is
9	part of the one or more recorded traffic flows; and
10	time stamp the group of information.
1	21. (Cancelled)
1	22. (Currently Amended) The network node of Claim 21 16 wherein the traffic
2	information packet comprises a header and one or more flow records.
1	23. (Currently Amended) A router comprising:
2	one or more switch fabrics;
3	one or more destination line cards coupled to the one or more switch fabrics;
4	a source line card coupled to one of the one or more switch fabrics, wherein
5	the source line card receives a data packet;
6	a router processor, coupled to the switch fabric, and configured to
7	determine whether to process the data packet for network traffic data collection
8	according to a sample algorithm;
9	process the data packet for network traffic data collection if the determination is
10	to process the data packet;
11	create a traffic information packet, wherein the traffic information packet includes
12	a sampling mode field indicating the sample algorithm used;

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13	transmit the traffic information packet to a network traffic data collection
14	application; and
15	forward the data packet to one of the one or more destination line cards.
1	24. (Previously Presented) The router of Claim 23 wherein the data packet is an
2	IP packet.
1	25. (Previously Presented) The router of Claim 23 wherein the router processor
2	is further configured to select the sample algorithm from one of linear sampling
3	exponential sampling, natural log sampling, burst sampling, and selecting the data packet
4	based on an examination of traffic attribute data in the data packet.
1	26. (Previously Presented) The router of Claim 23 wherein to forward the data
2	packet to one of the one or more destination line cards, the source line card is configured
3	to:
4	identify the one of the one or more destination line cards using a forwarding table
5	if the one of the one or more destination line cards is in the forwarding table,
6	automatically forward the data packet to the one of the one or more
7	destination line cards; and
8	otherwise send the data packet to the router processor wherein the router
9	processor is configured to
10	determine routing to one of the one or more destination line cards, and
11	then forward the data packet according to the determined routing.
1	27. (Previously Presented) The router of Claim 26 wherein the router processor
2	is located on the source line card.
1	28. (Previously Presented) The router of Claim 23 wherein to process the data
2	packet for network traffic data collection, the source line card is configured to:
3	determine if the data packet is part of one or more recorded traffic flows;
4	create a new entry in a table if the data packet is not part of the one or more
5	recorded traffic flows;

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6	increment a field in an existing entry in the table if the data packet is part of the
7	one or more recorded traffic flows; and
8	time stamp the data packet.
1	29. (Cancelled)
1	30. (Currently Amended) The router of Claim 29 23 wherein the traffic
2	information packet comprises a header and one or more flow records.
1	31. (Currently Amended) The method of Claim 1 wherein said collecting further
2	comprises:
3	selecting the sample sampling algorithm, wherein the sample sampling algorithm
4	is one of a linear, an exponential, a natural log, and a burst sample
5	sampling algorithm, and examination of traffic attribute data in the group
6	of information.
1	32. (Previously Presented) The apparatus of Claim 9 wherein the means for
2	determining further comprises:
3	means for selecting the means for sampling from one of
4	a means for linear sampling,
5	a means for exponential sampling,
6	a means for natural log sampling,
7	a means for burst sampling, and
8	a means for examining traffic attribute data in the group of information.
1	33. (Previously Presented) The network node of Claim 16 having the memory
2	further configured to store instructions to select the sample algorithm from one of
3	a linear sampling algorithm,
4	an exponential sampling algorithm,
5	a natural log sampling algorithm,
6	a burst sampling algorithm, and

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7	selecting the group of information based on an examination of traffic attribute
8	data in the group of information.
1	34. (Previously Presented) The network node of Claim 16 wherein the network
2	node further comprises:
3	a plurality of processing engines, wherein
4	the plurality of processing engines comprise the processing engine.
1	35. (New) The method of Claim 1 wherein the traffic information packet
2	includes a sampling interval field.
1	36. (New) The apparatus of Claim 9 wherein the traffic information packet
2	includes a sampling interval field.
1	37. (New) The network node of Claim 16 wherein the traffic information packet
2	includes a sampling interval field.
1	38. (New) The router of Claim 23 wherein the traffic information packet
2	· · · · · · · · · · · · · · · · · · ·
4	includes a sampling interval field.

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